

Rewrite claim 106 as follows.

106. (Once amended) A method of cultivating mammalian cells in suspension culture to high density and/or expressing a recombinant protein, said method comprising [the steps of]

(a) contacting said cells with [the eukaryotic cell culture medium of claim 84,]
a eukaryotic cell culture medium comprising a Fe²⁺ chelate and a Zn²⁺ salt,

wherein said Fe²⁺ chelate and said Zn²⁺ salt are each present in an amount which supports the growth of mammalian cells in culture,

wherein said medium is capable of supporting the high-density growth of mammalian cells in suspension culture and/or the expression of recombinant protein; and

[wherein said Fe²⁺ chelate and said Zn²⁺ salt are each present in an amount which supports the growth of mammalian cells in culture; and]

(b) cultivating said mammalian cells under conditions suitable to support the growth of said cells to high density and/or the expression of said recombinant protein.

Add new claims 140-153.

--140. The method of claim 1, wherein said serum-free cell culture medium is free of animal-derived ingredients.

141. The method of claim 1, wherein said serum-free cell culture medium is protein-free.

~~142. The method of claim 1, wherein said serum-free cell culture medium is chemically defined.~~

143. The method of claim 106, wherein said eukaryotic cell culture medium is free of animal-derived ingredients.

144. The method of claim 106, wherein said eukaryotic cell culture medium is protein-free.

145. The method of claim 106, wherein said eukaryotic cell culture medium is chemically defined.

~~146. The method of claim 106, wherein said eukaryotic cell culture medium contains neither transferrin nor insulin.~~

147. The method of claim 106, wherein said mammalian cells are Chinese hamster ovary cells.

148. The method of claim 106, wherein said eukaryotic cell culture medium is a 1X medium formulation.

149. The method of claim 106, wherein said eukaryotic cell culture medium is a concentrated medium formulation.

150. The method of claim 149, wherein said eukaryotic cell culture medium is a 10X medium formulation.

151. The method of claim 149, wherein said eukaryotic cell culture medium formulation is greater than 10X.

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152. The method of claim 106, wherein the concentration of said Fe^{2+} is about 0.00028 to 0.011 g/L and said concentration of said Zn^{2+} is about 0.00007 to 0.00073 g/L.

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153. The method of claim 152, wherein said concentration of said Fe^{2+} is about 0.0011 g/L and said concentration of said Zn^{2+} is about 0.000354 g/L.--

Remarks

I. Status of the Claims

Claim 106 has been amended. Claims 38-47, 48-66, 67-72, 84-105 and 113-139 have been canceled without prejudice to or disclaimer of the subject matter therein. Claims 140-153 have been added. Claims 1-37, 73-83, 106-112 and 140-153 are active in the present application.

II. Support for the Amendment and Remarks

Claims 141, 142 and 144 are supported by the specification at page 1, lines 5-7; page 16, line 3; and page 19, line 5.